

ABSTRACT

A process to separate solids from a solids laden gaseous flow containing more than 100 mg/Nm³ solids by ~~performing the following steps:~~ (a) separating solids from the gaseous flow using a gas-solids separator resulting in a gaseous flow containing less than 50 mg/Nm³ solids and an underflow having the separated solids and part of the gaseous flow as fed to the gas-solids separator; ~~(b)~~ separating part of the solids from the underflow in a cyclone wherein solids and a gaseous flow containing still some solids are obtained; ~~and (c)~~ contacting the gaseous flow obtained in ~~step (b)~~ with water to separate the solids and obtain a gaseous flow containing between 0 and 50 mg/Nm³ solids; and ~~(d)~~ combining the gaseous flows which are poor in solids ~~as obtained in step (c) and as obtained in step (a).~~